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[1. d: Advanced, High Efficiency Heat Transfer Technologies for Industrial or Utility Applications](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Despite their higher cost and larger system size, dry cooling systems are currently the only alternative for industrial or utility power plants unable to obtain permits for cooling water. Because of this, lower cost highly efficient advanced large scale heat transfer technologies that eliminate the need for cooling water would find a market with industrial and utility plants in areas with competi ...

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[2. e: Other](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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[3. b: Advanced Shale Gas Recovery Technologies for Horizontal Well Completion Optimization](#)

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Proposals are sought to develop and test technologies that will reduce the amount of water needed for hydraulic fracturing when completing natural gas wells or that will improve the apparent low (<30%) natural gas and liquids recovery efficiency currently associated with horizontal, hydraulically fractured wells producing from shale formations. Proposals should focus on addressing a number ...

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4. c: Other

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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5. 16: HIGH PERFORMANCE MATERIALS FOR NUCLEAR APPLICATION

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

To achieve energy security and greenhouse gas (GHG) emission reduction objectives, the United States must develop and deploy clean, affordable, domestic energy sources as quickly as possible. Nuclear power will continue to be a key component of a portfolio of technologies that meets our energy goals. Nuclear Energy R&D activities are organized along four main R&D objectives that a ...

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6. b: Ceramic, Ceramic Composite, or Coated Materials

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Grant applications are sought to develop improved ceramic, ceramic composite, or coated materials that can be used in the Generation IV Gas-Cooled and Liquid Fluoride Salt-Cooled Reactors at temperatures up to 850C, in a thermal neutron spectrum environment during normal operations and accidents. These ceramic or coated materials should have the following characteristics: (1) low thermal expansion ...

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7. c: In-situ Mitigation and Repair of Materials Degradation

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Grant applications are sought to develop technologies for the in situ mitigation and repair of materials degradation in Light Water Reactor systems and components, in order to extend the service life of current light water reactors. Approaches of interest include new techniques for the repair of materials degradation in metals, concrete, and cables; and methods that can mitigate irradiation and ag ...

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8. [d: Other](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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9. [17: ATMOSPHERIC MEASUREMENT TECHNOLOGY](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Emissions from energy and other anthropogenic activities have been altering the chemical composition of the atmosphere, both regionally and globally. Such modifications are linked not only to environmental degradation and human health problems but also with changes in the most sensitive parts of the physical climate system namely, clouds and aerosols. The Intergovernmental Panel on Climate Change ...

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10. [b: Cloud Particle Imager](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

Previous instrument packages developed to image hydrometeors in Arctic and Antarctic clouds have been successfully deployed from research aircraft and tethered balloons. However, traditional instrument packages typically are too large and heavy to be used on small UAVs. A need exists for an instrument package that is capable of installation on a small UAV, with capabilities to describe the size ...

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